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Figure 1

Phosphoribosylpyrophosphate (PRPP)

 \downarrow purF

5-phosphoribosylamine (PRA)

 $\downarrow purD$

5'-phosphoribosyl-1-glycinamide (GAR)

↓ purN or purT

5'- phosphoribosyl-N-formylglycinamide (FGAR)

↓ purL

5'-phosphoribosyl-N-formylglycinamidine (FGAM)

↓ purM

5'-phosphoribosyl-5-aminoimidazole (AIR)

↓ purE purK

5'-phosphoribosyl-5-aminoimidazole carboxylic acid (CAIR)

↓ purC

5'- phosphoribosyl-4-(N-succinocarboxamide)-5-aminoimidazole (SAICAIR)

 $\downarrow purB$

5'-phosphoribosyl-4-carboxamide-5-aminoimidazole (AICAR)

↓ purH purJ

Inosine monophosphate (IMP)

 \downarrow purA purB

↓guaB

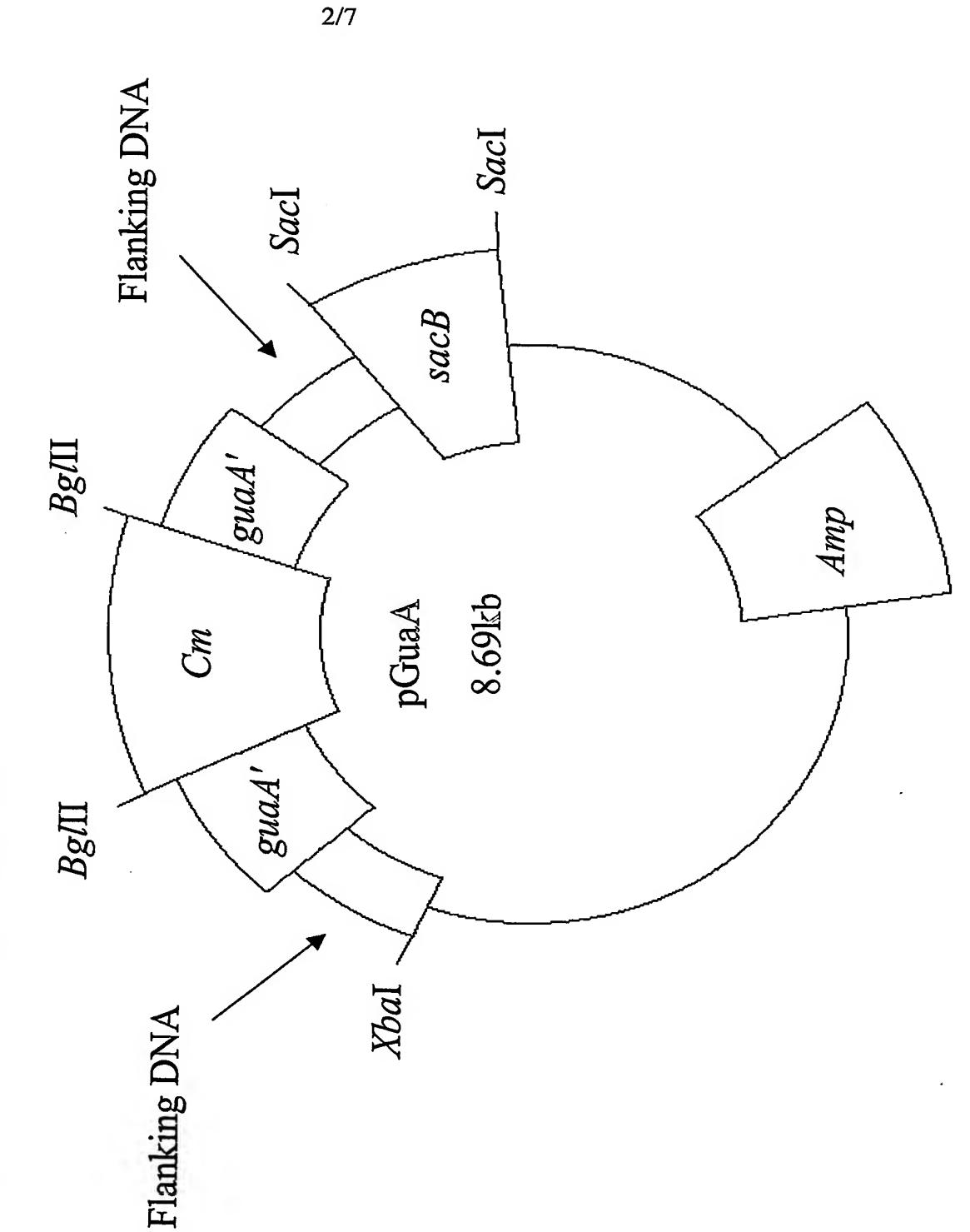
Adenosine monophosphate (AMP)

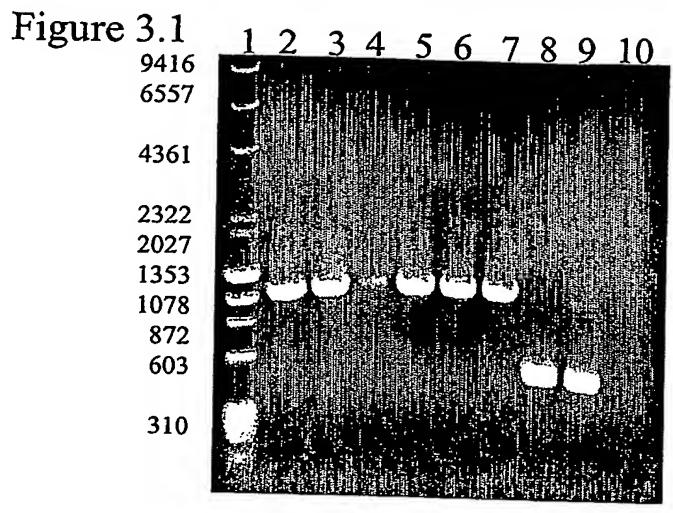
Xanthosine 5'-phosphate

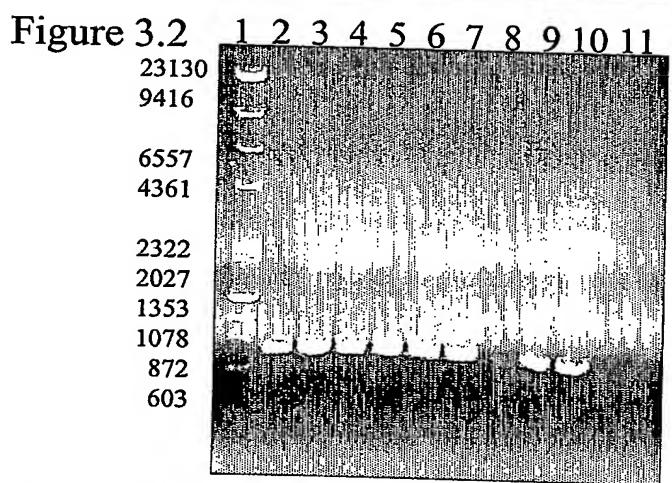
↓ guaA

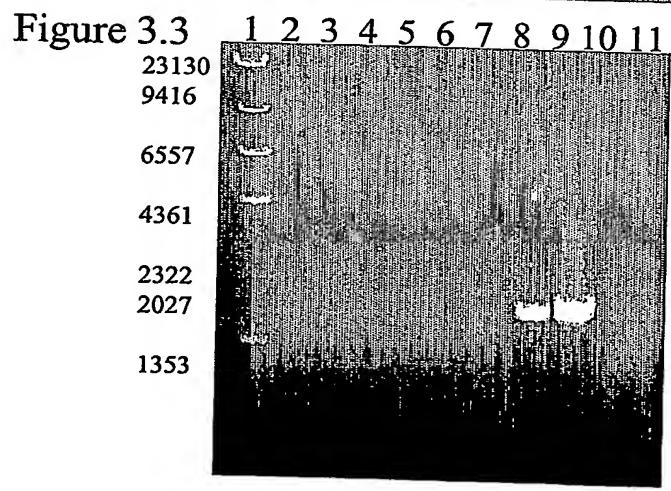
Guanosine monophosphate (GMP)

Figure 2. The pGuaA construct.









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Figure 4.1.

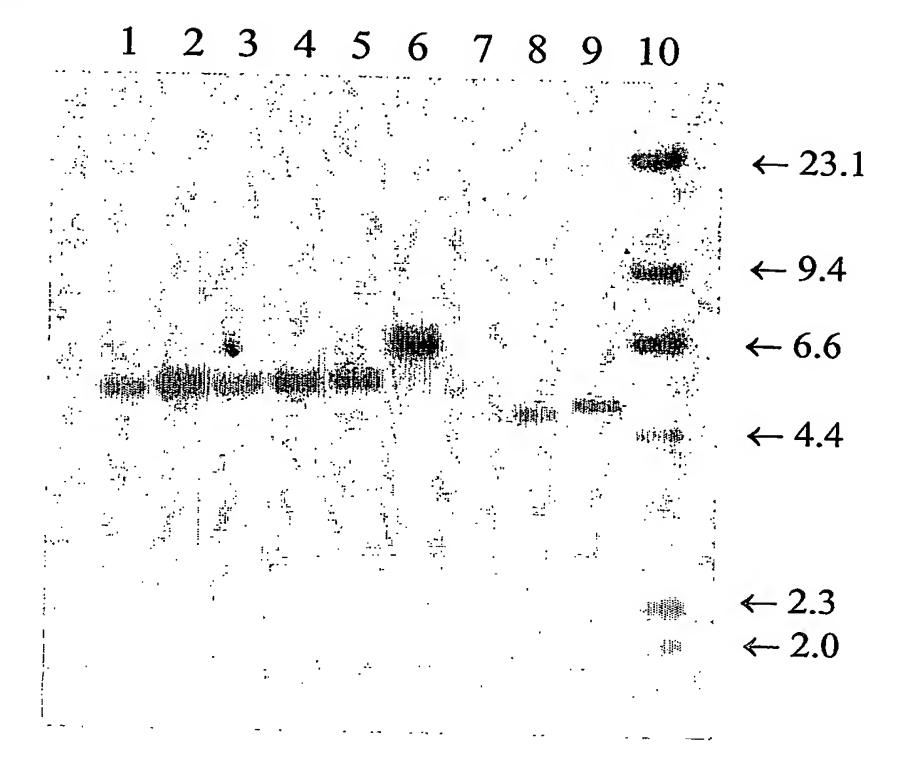


Figure 4.2.

